BLAST Basic Local Alignment Search Tool

Job Title: lcl|21992 (9 letters)

Show Conserved Domains
Putative conserved domains have been detected, click on the image below for detailed results.

- Your search parameters were adjusted to search for a short input sequence.
- Your search is limited to records matching entrez query: txid10376 [ORGN].
-

BLASTP 2.2.17 (Aug-26-2007)

Reference: Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402. RID: EN6Z0JNH014 **Database:** All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF excluding environmental samples from WGS projects 5,469,030 sequences; 1,893,730,435 total letters

Query= Length=9

SEQ ID NO: 21

Distribution of 132 Blast Hits on the Query Sequence

2

3
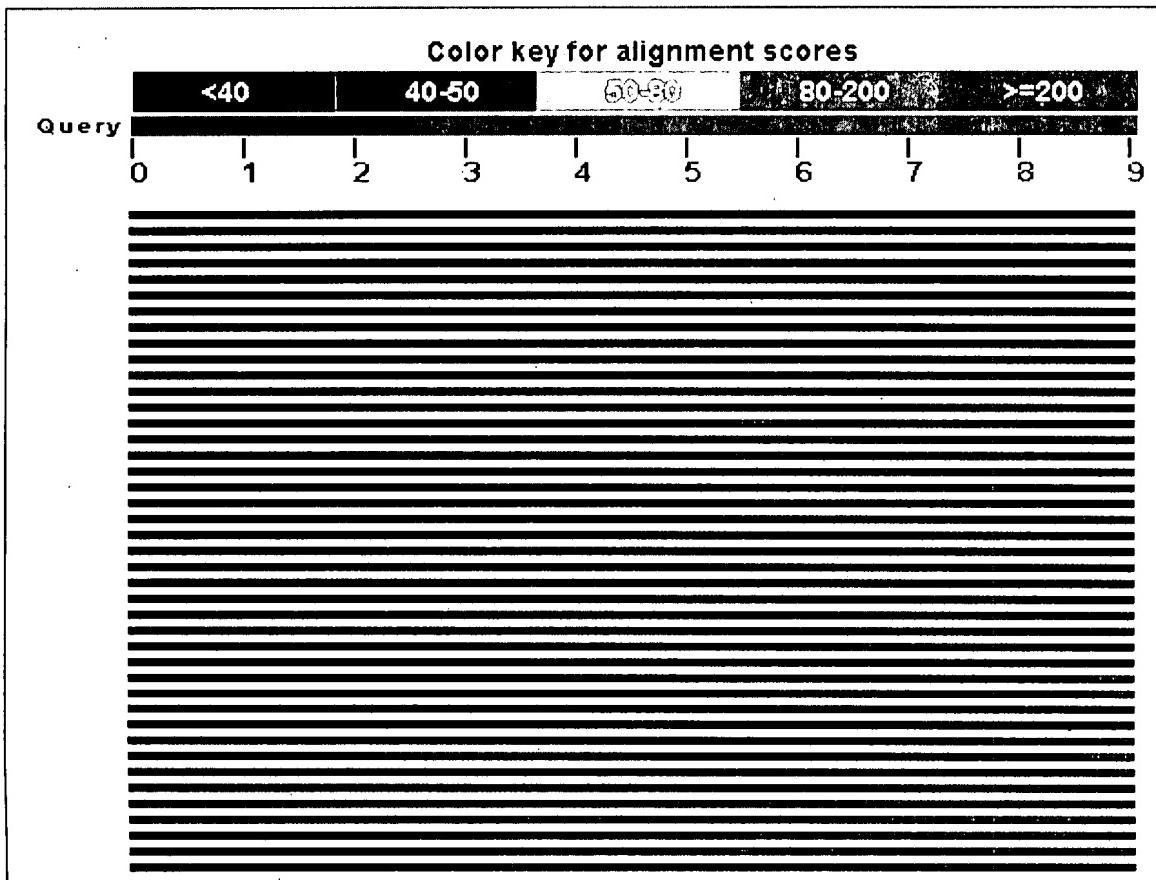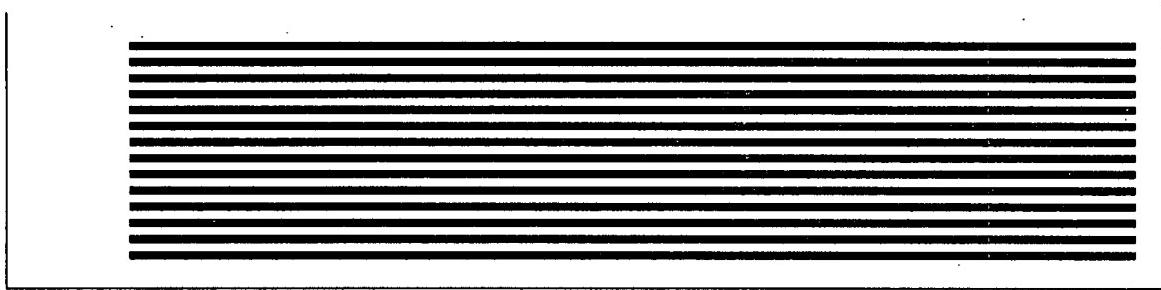
Sequences producing significant alignments:

		Score (Bits)	E Value
gb|ABM45855.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAT01421.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAT01422.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAT01425.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAT01423.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAT01424.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAT01426.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99598.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99592.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99603.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99611.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99601.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99604.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99615.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAS99609.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99606.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99605.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99595.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99594.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAS99591.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99593.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99602.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99613.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99614.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAS99599.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99608.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99607.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99610.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99618.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAS99621.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAS99620.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99616.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAS99617.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99600.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99619.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAS99597.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAS00029.1| latent membrane protein 1 [Human herpesvirus 4...		35.0	5e-05
gb|AAR19272.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAR19271.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAR19270.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAQ16192.2| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAQ16196.2| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAQ16191.2| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAQ16193.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAQ16194.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAQ16195.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAP31580.1| latent membrane protein LMP-1 [Human herpesvirus		35.0	5e-05
gb|AAG31283.1|AF304432_1 latent membrane protein-1 [Human herpes		35.0	5e-05
gb|AAD01758.1| latent membrane protein 1 [Human herpesvirus 4]		35.0	5e-05
gb|AAD19887.1| latent membrane protein-1 [Human herpesvirus 4]		35.0	5e-05
ref|YP_001129515.1| LMP-1 [Human herpesvirus 4 type 2] >gb|AA...		35.0	5e-05 [G]
gb|AAA66330.1| latent membrane protein		35.0	5e-05
emb|CAA47332.1| latent membrane protein [Human herpesvirus 4]...		35.0	5e-05
ref|YP_401722.1| LMP-1 [Human herpesvirus 4 type 1] >sp|P0323...		35.0	5e-05 [G]
sp|P13198|LMP1_EBVR Latent membrane protein 1 (LMP-1) (Protei...		35.0	5e-05
sp|P29362|LMP1_EBVC Latent membrane protein 1 (LMP-1) (Protei...		35.0	5e-05
gb|AAS99612.1| latent membrane protein 1 [Human herpesvirus 4]		18.9	3.4
gb|AAS99596.1| latent membrane protein 1 [Human herpesvirus 4...		18.9	3.4

```
ref|YP_401708.1|  LF2 [Human herpesvirus 4 type 1] >ref|YP_001...    16.9      15  G
ref|YP_001129484.1|  BGLF3 [Human herpesvirus 4 type 2] >gb|AA...    16.3      20  G
ref|YP_401689.1|  BGLF3 [Human herpesvirus 4 type 1] >sp|P0322...    16.3      20  G
gb|AAK95617.1|AF401275_1  BALF1 [Human herpesvirus 4]                 13.8     117
ref|YP_401718.1|  BALF1 [Human herpesvirus 4 type 1] >ref|YP_0...    13.8     117  G
sp|P03229|YAL1_EBV  Hypothetical protein BALF1 >gb|AAK95616.1|...     13.8     117
ref|YP_401691.1|  BGLF2 [Human herpesvirus 4 type 1] >ref|YP_0...    13.4     156  G
ref|YP_001129507.1|  BALF5 [Human herpesvirus 4 type 2] >gb|AB...    10.0    1643  G
ref|YP_001129444.1|  BFLF1 [Human herpesvirus 4 type 2] >gb|AB...    10.0    1643  G
gb|AAA66533.1|  putative                                             10.0    1643
gb|AAY41154.1|  unknown [Human herpesvirus 4]                        10.0    1643
ref|YP_401721.1|  BNLF2a [Human herpesvirus 4 type 1] >ref|YP_...    10.0    1643  G
ref|YP_401648.1|  BFLF1 [Human herpesvirus 4 type 1] >sp|P0318...    10.0    1643  G
ref|YP_401712.1|  BALF5 [Human herpesvirus 4 type 1] >sp|P0319...    10.0    1643  G
ref|YP_001129500.1|  BVLF1 [Human herpesvirus 4 type 2] >gb|AB...     8.7    3970  G
ref|YP_401726.1|  BVLF1 [Human herpesvirus 4 type 1] >emb|CAJ7...     8.7    3970  G
ref|YP_401656.1|  BaRF1 [Human herpesvirus 4 type 1] >ref|YP_0...     8.7    3970  G
```

Alignments

```
>gb|ABM45855.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=188

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>gb|AAT01421.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=386

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>gb|AAT01422.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=375

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164
```

```
  Score = 15.9 bits (30),   Expect =    27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107


>gb|AAT01425.1|   latent membrane protein 1 [Human herpesvirus 4]
Length=381

  Score = 35.0 bits (75),   Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


  Score = 15.9 bits (30),   Expect =    27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107


>gb|AAT01423.1|   latent membrane protein 1 [Human herpesvirus 4]
Length=387

  Score = 35.0 bits (75),   Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


  Score = 15.9 bits (30),   Expect =    27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107


>gb|AAT01424.1|   latent membrane protein 1 [Human herpesvirus 4]
Length=390

  Score = 35.0 bits (75),   Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


  Score = 15.9 bits (30),   Expect =    27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107


>gb|AAT01426.1|   latent membrane protein 1 [Human herpesvirus 4]
Length=386

  Score = 35.0 bits (75),   Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


  Score = 15.9 bits (30),   Expect =    27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)
```

```
Query    2     ALYL    5
               ALYL
Sbjct  104     ALYL    107
```

>gb|AAS99598.1| latent membrane protein 1 [Human herpesvirus 4]
Length=392

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query    1     IALYLQQNW    9
               IALYLQQNW
Sbjct  156     IALYLQQNW    164
```

```
 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query    2     ALYL    5
               ALYL
Sbjct  104     ALYL    107
```

>gb|AAS99592.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query    1     IALYLQQNW    9
               IALYLQQNW
Sbjct  156     IALYLQQNW    164
```

```
 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query    2     ALYL    5
               ALYL
Sbjct  104     ALYL    107
```

>gb|AAS99603.1| latent membrane protein 1 [Human herpesvirus 4]
Length=371

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query    1     IALYLQQNW    9
               IALYLQQNW
Sbjct  156     IALYLQQNW    164
```

```
 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query    2     ALYL    5
               ALYL
Sbjct  104     ALYL    107
```

>gb|AAS99611.1| latent membrane protein 1 [Human herpesvirus 4]
Length=381

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query    1     IALYLQQNW    9
               IALYLQQNW
Sbjct  156     IALYLQQNW    164
```

```
 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query    2     ALYL    5
               ALYL
Sbjct  104     ALYL    107
```

>gb|AAS99601.1| latent membrane protein 1 [Human herpesvirus 4]
Length=393

 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
             IALYLQQNW
Sbjct 156   IALYLQQNW 164

 Score = 15.9 bits (30),   Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
             ALYL
Sbjct 104   ALYL   107

>gb|AAS99604.1| latent membrane protein 1 [Human herpesvirus 4]
Length=381

 Score = 35.0 bits (75), Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
             IALYLQQNW
Sbjct 156   IALYLQQNW 164

 Score = 15.9 bits (30),   Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
             ALYL
Sbjct 104   ALYL   107

>gb|AAS99615.1| latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99623.1| latent membrane protein 1 [Human herpesvirus 4]
Length=404

 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
             IALYLQQNW
Sbjct 156   IALYLQQNW 164

 Score = 15.9 bits (30),   Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
             ALYL
Sbjct 104   ALYL 107

>gb|AAS99609.1| latent membrane protein 1 [Human herpesvirus 4]
Length=358

 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
             IALYLQQNW
Sbjct 155   IALYLQQNW 163

 Score = 15.9 bits (30),   Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
             ALYL
Sbjct 104   ALYL   107

>gb|AAS99606.1| latent membrane protein 1 [Human herpesvirus 4]
Length=371

 Score = 35.0 bits (75),   Expect = 5e-05

```
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1   IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2   ALYL   5
            ALYL
Sbjct  104  ALYL  107
```

>gb|AAS99605.1| latent membrane protein 1 [Human herpesvirus 4]
Length=379

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1   IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2   ALYL   5
            ALYL
Sbjct  104  ALYL  107
```

>gb|AAS99595.1| latent membrane protein 1 [Human herpesvirus 4]
Length=371

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1   IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2   ALYL   5
            ALYL
Sbjct  104  ALYL  107
```

>gb|AAS99594.1| latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99626.1| latent membrane protein 1 [Human herpesvirus 4]
Length=393

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1   IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2   ALYL   5
            ALYL
Sbjct  104  ALYL  107
```

>gb|AAS99591.1| latent membrane protein 1 [Human herpesvirus 4]
Length=404

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1   IALYLQQNW   9
            IALYLQQNW
```

```
Sbjct  156   IALYLQQNW   164
```

```
  Score = 15.9 bits (30),  Expect = 27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)
```

```
Query   2    ALYL   5
             ALYL
Sbjct  104   ALYL   107
```

>**gb|AAS99593.1|**   latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
  Score = 35.0 bits (75),  Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)
```

```
Query   1    IALYLQQNW   9
             IALYLQQNW
Sbjct  156   IALYLQQNW   164
```

```
  Score = 15.9 bits (30),  Expect = 27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)
```

```
Query   2    ALYL   5
             ALYL
Sbjct  104   ALYL   107
```

>**gb|AAS99602.1|**   latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
  Score = 35.0 bits (75),  Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)
```

```
Query   1    IALYLQQNW   9
             IALYLQQNW
Sbjct  156   IALYLQQNW   164
```

```
  Score = 15.9 bits (30),  Expect = 27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)
```

```
Query   2    ALYL   5
             ALYL
Sbjct  104   ALYL   107
```

>**gb|AAS99613.1|**   latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
  Score = 35.0 bits (75),  Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)
```

```
Query   1    IALYLQQNW   9
             IALYLQQNW
Sbjct  156   IALYLQQNW   164
```

```
  Score = 15.9 bits (30),  Expect = 27
  Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)
```

```
Query   2    ALYL   5
             ALYL
Sbjct  104   ALYL   107
```

>**gb|AAS99614.1|**   latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99622.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
  Score = 35.0 bits (75),  Expect = 5e-05
  Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)
```

```
Query   1    IALYLQQNW   9
             IALYLQQNW
Sbjct  156   IALYLQQNW   164
```

```
  Score = 15.9 bits (30),  Expect = 27
```

```
Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAS99599.1**| latent membrane protein 1 [Human herpesvirus 4]
Length=392

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAS99608.1**| latent membrane protein 1 [Human herpesvirus 4]
Length=371

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAS99607.1**| latent membrane protein 1 [Human herpesvirus 4]
Length=371

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAS99610.1**| latent membrane protein 1 [Human herpesvirus 4]
Length=392

```
 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

```
>gb|AAS99618.1|  latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99628.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=403

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>gb|AAS99621.1|  latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99629.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=382

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>gb|AAS99620.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=376

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>gb|AAS99616.1|  latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99624.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=392

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

12

>gb|AAS99617.1| latent membrane protein 1 [Human herpesvirus 4]
Length=403

 Score = 35.0 bits (75), Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
            IALYLQQNW
Sbjct 156 IALYLQQNW 164

 Score = 15.9 bits (30), Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
            ALYL
Sbjct 104 ALYL 107

>gb|AAS99600.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

 Score = 35.0 bits (75), Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
            IALYLQQNW
Sbjct 156 IALYLQQNW 164

 Score = 15.9 bits (30), Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
            ALYL
Sbjct 104 ALYL 107

>gb|AAS99619.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

 Score = 35.0 bits (75), Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
            IALYLQQNW
Sbjct 156 IALYLQQNW 164

 Score = 15.9 bits (30), Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
            ALYL
Sbjct 104 ALYL 107

>gb|AAS99597.1| latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99625.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

 Score = 35.0 bits (75), Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query 1   IALYLQQNW 9
            IALYLQQNW
Sbjct 156 IALYLQQNW 164

 Score = 15.9 bits (30), Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query 2   ALYL 5
            ALYL
Sbjct 104 ALYL 107

>gb|AAS00029.1| latent membrane protein 1 [Human herpesvirus 4]
 gb|AAS99590.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =     27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL   5
            ALYL
Sbjct  104  ALYL   107
```

>gb|AAR19272.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =     27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL   5
            ALYL
Sbjct  104  ALYL   107
```

>gb|AAR19271.1| latent membrane protein 1 [Human herpesvirus 4]
Length=371

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =     27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL   5
            ALYL
Sbjct  104  ALYL   107
```

>gb|AAR19270.1| latent membrane protein 1 [Human herpesvirus 4]
Length=415

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW   9
            IALYLQQNW
Sbjct  156  IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =     27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL   5
            ALYL
Sbjct  104  ALYL   107
```

>gb|AAQ16192.2| latent membrane protein 1 [Human herpesvirus 4]
Length=371

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW   9
            IALYLQQNW
```

```
Sbjct  156  IALYLQQNW  164


   Score = 15.9 bits (30),  Expect =    27
   Identities = 4/4 (100%),  Positives = 4/4 (100%),  Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAQ16196.2**| latent membrane protein 1 [Human herpesvirus 4]
Length=381

```
   Score = 35.0 bits (75),  Expect = 5e-05
   Identities = 9/9 (100%),  Positives = 9/9 (100%),  Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


   Score = 15.9 bits (30),  Expect =    27
   Identities = 4/4 (100%),  Positives = 4/4 (100%),  Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAQ16191.2**| latent membrane protein 1 [Human herpesvirus 4]
Length=381

```
   Score = 35.0 bits (75),  Expect = 5e-05
   Identities = 9/9 (100%),  Positives = 9/9 (100%),  Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


   Score = 15.9 bits (30),  Expect =    27
   Identities = 4/4 (100%),  Positives = 4/4 (100%),  Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAQ16193.1**| latent membrane protein 1 [Human herpesvirus 4]
Length=371

```
   Score = 35.0 bits (75),  Expect = 5e-05
   Identities = 9/9 (100%),  Positives = 9/9 (100%),  Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


   Score = 15.9 bits (30),  Expect =    27
   Identities = 4/4 (100%),  Positives = 4/4 (100%),  Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

>gb|**AAQ16194.1**| latent membrane protein 1 [Human herpesvirus 4]
Length=381

```
   Score = 35.0 bits (75),  Expect = 5e-05
   Identities = 9/9 (100%),  Positives = 9/9 (100%),  Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


   Score = 15.9 bits (30),  Expect =    27
   Identities = 4/4 (100%),  Positives = 4/4 (100%),  Gaps = 0/4 (0%)
```

```
Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107
```

>gb|AAQ16195.1| latent membrane protein 1 [Human herpesvirus 4]
Length=381

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107
```

>gb|AAP31580.1| latent membrane protein LMP-1 [Human herpesvirus 4 type 1]
Length=382

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107
```

>gb|AAG31283.1|AF304432_1   latent membrane protein-1 [Human herpesvirus 4]
Length=404

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107
```

>gb|AAD01758.1| latent membrane protein 1 [Human herpesvirus 4]
Length=382

```
 Score = 35.0 bits (75),   Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query   1     IALYLQQNW   9
              IALYLQQNW
Sbjct   156   IALYLQQNW   164


 Score = 15.9 bits (30),   Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query   2     ALYL   5
              ALYL
Sbjct   104   ALYL   107
```

```
>gb|AAD19887.1|  latent membrane protein-1 [Human herpesvirus 4]
Length=371

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

```
>ref|YP_001129515.1|  G  LMP-1 [Human herpesvirus 4 type 2]
 gb|AAA53227.1|  G  latent membrane protein 1
 gb|ABB89294.1|  G  LMP-1 [Human herpesvirus 4]
Length=371

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

```
>gb|AAA66330.1|  latent membrane protein
Length=386

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

```
>emb|CAA47332.1|  latent membrane protein [Human herpesvirus 4]
 gb|AAA45886.1|  latent membrane protein
Length=381

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  155  IALYLQQNW  163


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107
```

```
>ref|YP_401722.1| G  LMP-1 [Human herpesvirus 4 type 1]
 sp|P03230|LMP1_EBV  Latent membrane protein 1 (LMP-1) (Protein p63) [Contains: Protein
p25]
 emb|CAA26023.1|  42kd protein pot. membrane protein [Human herpesvirus 4]
 gb|AAA45888.1|  EBV membrane protein
 emb|CAD53472.1| G  LMP1 [Human herpesvirus 4]
Length=386

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


>sp|P13198|LMP1_EBVR  Latent membrane protein 1 (LMP-1) (Protein p63)
 gb|AAA66532.1|  latent membrane protein
Length=386

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>sp|P29362|LMP1_EBVC  Latent membrane protein 1 (LMP-1) (Protein p63)
 emb|CAA41148.1|  latent membrane protein LMP1 [Human herpesvirus 4]
 dbj|BAA00948.1|  LMP1 [Human herpesvirus 4]
Length=404

 Score = 35.0 bits (75),  Expect = 5e-05
 Identities = 9/9 (100%), Positives = 9/9 (100%), Gaps = 0/9 (0%)

Query  1    IALYLQQNW  9
            IALYLQQNW
Sbjct  156  IALYLQQNW  164


 Score = 15.9 bits (30),  Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>gb|AAS99612.1|  latent membrane protein 1 [Human herpesvirus 4]
Length=382

 Score = 18.9 bits (37),  Expect = 3.4
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  6    QQNW  9
            QQNW
Sbjct  161  QQNW  164


 Score = 15.9 bits (30),  Expect =   27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>gb|AAS99596.1|  latent membrane protein 1 [Human herpesvirus 4]
```

```
gb|AAS99627.1|   latent membrane protein 1 [Human herpesvirus 4]
Length=393

 Score = 18.9 bits (37),  Expect = 3.4
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  6    QQNW  9
            QQNW
Sbjct  161  QQNW  164


 Score = 15.9 bits (30),  Expect =    27
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2    ALYL  5
            ALYL
Sbjct  104  ALYL  107


>ref|YP_401708.1|  G  LF2 [Human herpesvirus 4 type 1]
 ref|YP_001129504.1|  G  LF2 [Human herpesvirus 4 type 2]
 gb|AAA45897.1|   LF2 gene product
 emb|CAD53458.1|  G  LF2 protein [Human herpesvirus 4]
 gb|ABB89283.1|  G  LF2 [Human herpesvirus 4]
Length=429

 Score = 16.8 bits (32),  Expect =    15
 Identities = 4/4 (100%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  3    LYLQ  6
            LYLQ
Sbjct  157  LYLQ  160


>ref|YP_001129484.1|  G  BGLF3 [Human herpesvirus 4 type 2]
 gb|AAY41135.1|   unknown [Human herpesvirus 4]
 gb|ABB89267.1|  G  BGLF3 [Human herpesvirus 4]
Length=332

 Score = 16.3 bits (31),  Expect =    20
 Identities = 5/9 (55%), Positives = 7/9 (77%), Gaps = 1/9 (11%)

Query  2    ALYLQ-QNW  9
            ALYL  ++W
Sbjct  218  ALYLDVRDW  226


>ref|YP_401689.1|  G  BGLF3 [Human herpesvirus 4 type 1]
 sp|P03220|UL95_EBV   Protein BGLF3
 emb|CAA24830.1T   unnamed protein product [Human herpesvirus 4]
 emb|CAD53439.1|  G  BGLF3 protein [Human herpesvirus 4]
Length=332

 Score = 16.3 bits (31),  Expect =    20
 Identities = 5/9 (55%), Positives = 7/9 (77%), Gaps = 1/9 (11%)

Query  2    ALYLQ-QNW  9
            ALYL  ++W
Sbjct  218  ALYLDVRDW  226


>gb|AAK95617.1|AF401275_1   BALF1 [Human herpesvirus 4]
Length=220

 Score = 13.8 bits (25),  Expect =   117
 Identities = 4/5 (80%), Positives = 4/5 (80%), Gaps = 0/5 (0%)

Query  1    IALYL  5
            IA YL
Sbjct  178  IAHYL  182


>ref|YP_401718.1|  G  BALF1 [Human herpesvirus 4 type 1]
 ref|YP_001129511.1|  G  BALF1 [Human herpesvirus 4 type 2]
```

```
gb|ABB89290.1|  G  BALF1 [Human herpesvirus 4]
Length=182

 Score = 13.8 bits (25),  Expect =    117
 Identities = 4/5 (80%), Positives = 4/5 (80%), Gaps = 0/5 (0%)

Query  1     IALYL  5
             IA YL
Sbjct  140   IAHYL  144


>sp|P03229|YAL1_EBV  Hypothetical protein BALF1
 gb|AAK95616.1|AF401274_1  BALF1 [Human herpesvirus 4]
 gb|AAK95618.1|AF401276_1  BALF1 [Human herpesvirus 4]
 gb|AAK95619.1|AF401277_1  BALF1 [Human herpesvirus 4]
 gb|AAK95620.1|AF401278_1  BALF1 [Human herpesvirus 4]
 emb|CAA24810.1|  unnamed protein product [Human herpesvirus 4]

 emb|CAD53468.1|  G  hypothetical BALF1 protein [Human herpesvirus 4]
 gb|AAY41157.1|  unknown [Human herpesvirus 4]
Length=220

 Score = 13.8 bits (25),  Expect =    117
 Identities = 4/5 (80%), Positives = 4/5 (80%), Gaps = 0/5 (0%)

Query  1     IALYL  5
             IA YL
Sbjct  178   IAHYL  182


>ref|YP_401691.1|  G  BGLF2 [Human herpesvirus 4 type 1]

 ref|YP_001129486.1|  G  BGLF2 [Human herpesvirus 4 type 2]
 sp|P03221|UL16_EBV  Protein BGLF2
 gb|AAB21113.1|  36 kda protein [Human herpesvirus 4]
 gb|AAA45871.1|  BGLF2
 emb|CAA24831.1|  unnamed protein product [Human herpesvirus 4]

 emb|CAD53441.1|  G  BGLF2 protein [Human herpesvirus 4]
 gb|AAY41138.1|  unknown [Human herpesvirus 4]

 gb|ABB89265.1|  G  BGLF2 [Human herpesvirus 4]
Length=336

 Score = 13.4 bits (24),  Expect =    156
 Identities = 3/4 (75%), Positives = 4/4 (100%), Gaps = 0/4 (0%)

Query  2     ALYL  5
             ALY+
Sbjct  172   ALYM  175


>ref|YP_001129507.1|  G  BALF5 [Human herpesvirus 4 type 2]

 gb|ABB89286.1|  G  BALF5 [Human herpesvirus 4]
Length=1015

 Score = 10.0 bits (16),  Expect =   1643
 Identities = 2/2 (100%), Positives = 2/2 (100%), Gaps = 0/2 (0%)

Query  7     QN  8
             QN
Sbjct  1007  QN  1008


>ref|YP_001129444.1|  G  BFLF1 [Human herpesvirus 4 type 2]

 gb|ABB89224.1|  G  BFLF1 [Human herpesvirus 4]
Length=525

 Score = 10.0 bits (16),  Expect =   1643
 Identities = 2/2 (100%), Positives = 2/2 (100%), Gaps = 0/2 (0%)

Query  7     QN  8
             QN
Sbjct  466   QN  467


>gb|AAA66533.1|  putative
Length=60
```

```
 Score = 10.0 bits (16),  Expect =  1643
 Identities = 2/2 (100%), Positives = 2/2 (100%), Gaps = 0/2 (0%)

Query  6    QQ  7
            QQ
Sbjct  12   QQ  13
```

>gb|AAY41154.1| unknown [Human herpesvirus 4]
Length=1015

```
 Score = 10.0 bits (16),  Expect =  1643
 Identities = 2/2 (100%), Positives = 2/2 (100%), Gaps = 0/2 (0%)

Query  7    QN  8
            QN
Sbjct  1007 QN  1008
```

>ref|YP_401721.1| G BNLF2a [Human herpesvirus 4 type 1]
 ref|YP_001129514.1| G BNLF2a [Human herpesvirus 4 type 2]
 emb|CAA26024.1| unnamed protein product [Human herpesvirus 4]
 emb|CAA24812.1| unnamed protein product [Human herpesvirus 4]
 emb|CAD53471.1| G hypothetical BNLF2A protein [Human herpesvirus 4]
 gb|AAY41159.1| unknown [Human herpesvirus 4]
 gb|ABB89293.1| G BNLF2a [Human herpesvirus 4]
Length=60

```
 Score = 10.0 bits (16),  Expect =  1643
 Identities = 2/2 (100%), Positives = 2/2 (100%), Gaps = 0/2 (0%)

Query  6    QQ  7
            QQ
Sbjct  12   QQ  13
```

>ref|YP_401648.1| G BFLF1 [Human herpesvirus 4 type 1]
 sp|P03184|UL32_EBV Probable major envelope glycoprotein BFLF1
 gb|AAA45867.1| putative 58 kDa protein, BFLF1; putative
 emb|CAA24878.1| unnamed protein product [Human herpesvirus 4]
 emb|CAD53398.1| G BFLF1 [Human herpesvirus 4]
Length=525

```
 Score = 10.0 bits (16),  Expect =  1643
 Identities = 2/2 (100%), Positives = 2/2 (100%), Gaps = 0/2 (0%)

Query  7    QN  8
            QN
Sbjct  466  QN  467
```

>ref|YP_401712.1| G BALF5 [Human herpesvirus 4 type 1]
 sp|P03198|DPOL_EBV DNA polymerase
 emb|CAA24805.1| unnamed protein product [Human herpesvirus 4]
 emb|CAD53462.1| G DNA polymerase [Human herpesvirus 4]
Length=1015

```
 Score = 10.0 bits (16),  Expect =  1643
 Identities = 2/2 (100%), Positives = 2/2 (100%), Gaps = 0/2 (0%)

Query  7    QN  8
            QN
Sbjct  1007 QN  1008
```

>ref|YP_001129500.1| G BVLF1 [Human herpesvirus 4 type 2]
 gb|ABB89295.1| G BVLF1 [Human herpesvirus 4]
Length=272

```
 Score =  8.7 bits (13),  Expect =  3970
 Identities = 1/1 (100%), Positives = 1/1 (100%), Gaps = 0/1 (0%)

Query  9    W  9
```

```
                 W
Sbjct  172   W   172


>ref|YP_401726.1|  [G] BVLF1 [Human herpesvirus 4 type 1]
 emb|CAJ75461.1|   BVLF1 [Human herpesvirus 4]
Length=272

 Score =  8.7 bits (13),   Expect =  3970
 Identities = 1/1 (100%), Positives = 1/1 (100%), Gaps = 0/1 (0%)

Query  9     W   9
                 W
Sbjct  172   W   172


>ref|YP_401656.1|  [G] BaRF1 [Human herpesvirus 4 type 1]
 ref|YP_001129453.1|  [G] BaRF1 [Human herpesvirus 4 type 2]
 sp|P03175|RIR2_EBV  Ribonucleoside-diphosphate reductase small chain (Ribonucleotide
reductase small subunit) (Ribonucleotide reductase 38 kDa
subunit)
 emb|CAA24843.1|  unnamed protein product [Human herpesvirus 4]
 emb|CAD53406.1|  [G] ribonucleoside-diphosphate reductase small chain [Human herpesvirus
4]
 gb|AAY41106.1|  unknown [Human herpesvirus 4]
 gb|ABB89233.1|  [G] BaRF1 [Human herpesvirus 4]
Length=302

 Score =  8.7 bits (13),   Expect =  3970
 Identities = 1/1 (100%), Positives = 1/1 (100%), Gaps = 0/1 (0%)

Query  9     W   9
                 W
Sbjct  132   W   132



   Database: All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF excluding
environmental samples from WGS projects
     Posted date:  Sep 13, 2007  5:56 PM
   Number of letters in database: 183,225
   Number of sequences in database:  575
Lambda      K        H
   0.328    0.272     1.90
Gapped
Lambda      K        H
   0.294    0.110     0.610
Matrix: PAM30
Gap Penalties: Existence: 9, Extension: 1
Number of Sequences: 575
Number of Hits to DB: 26
Number of extensions: 0
Number of successful extensions: 0
Number of sequences better than 200000: 0
Number of HSP's better than 200000 without gapping: 0
Number of HSP's gapped: 0
Number of HSP's successfully gapped: 0
Length of query: 9
Length of database: 183225
Length adjustment: 0
Effective length of query: 9
Effective length of database: 183225
Effective search space: 1649025
Effective search space used: 1649025
T: 11
A: 40
X1: 1 (0.5 bits)
```

```
X2: 35 (14.8 bits)
X3: 58 (24.6 bits)
S1: 1 (3.6 bits)
S2: 0 (3.2 bits)
```

NCBI

PubMed

My NCBI   [?]
[Sign In] [Register]

All Databases   PubMed   Nucleotide   Protein   Genome   Structure   OMIM   PMC   Journals   Books

Search | PubMed ▾ | for | Preview | Go | Clear |

Limits   Preview/Index   **History**   Clipboard   Details

About Entrez

Text Version

Entrez PubMed
Overview
Help | FAQ
Tutorials
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
Special Queries
LinkOut
My NCBI

Related Resources
Order Documents
NLM Mobile
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g., #2 AND #3 or click query # for more options.

Search	Most Recent Queries	Time	Result
#26	Search **#25 AND (epitope[ab] or epitope[ti]) AND (LMP1 or LMP-1 or "latent membrane protein 1")**	11:38:16	13
#25	**Related Articles for PubMed (Select 1377222)**	11:36:39	173
#21	Search **#19 AND (LMP1 or LMP-1 or "latent membrane protein 1")** Field: **Title/Abstract**	11:33:01	16
#20	Search **#19 AND (LMP1 or "latent membrane protein 1")** Field: **Title/Abstract**	11:32:47	14
#19	Search **(EBV OR epstein-barr OR "epstein barr virus") AND (CTL OR t-cell OR "T cell") AND epitope** Field: **Title/Abstract**	11:32:13	274
#18	Search **(EBV or epstein-barr or "epstein barr virus") AND (CTL or T-cell or "T cell") AND eptiope** Field: **Title/Abstract**	11:32:06	0

Clear History